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APPLICATION 1	NO. 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/837,151 04/18/2001		Paul E. Bender	QCPA655C1B1	7745	
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San Diego, CA 92121-1714				2661	
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Please find below and/or attached an Office communication concerning this application or proceeding.

#:		Application No.	T Anntiocnt(c)	_			
-		Application No.	Applicant(s)				
	Office Action Summany	09/837,151	BENDER ET AL.				
	Office Action Summary	Examiner	Art Unit				
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Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address				
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ly within the statutory minimum of thirty (30) o will apply and will expire SIX (6) MONTHS fro e, cause the application to become ABANDO	timely filed lays will be considered timely. In the mailing date of this communication. NED (35 U.S.C. § 133).				
Status							
•		s action is non-final. ance except for formal matters, p					
Disposit	ion of Claims						
5)□ 6)⊠ 7)⊠	4) Claim(s) 7.9-18 and 20-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 7.9-18 and 20-23 is/are rejected. 7) Claim(s) 15 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
10)	The specification is objected to by the Examin The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examin The specification is objected.	cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).				
Priority (under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Infor	at(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:					

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claim 14.

DETAILED ACTION

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Claim Objections

1. Claim 15 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 14, from which claim 15 depends, discloses exactly (explicitly and implicitly) what claim 15 discloses. Specifically, line 3 discloses the two or more access points in communication with a remote user and lines 4-6 is almost verbatim what is disclosed in claim 15. There appears to be no further limiting disclosure in claim 15 that is not already disclosed in

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that
 form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 25 3. Claims 7, 9, 11, 18, and 20-23 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 5,958,018, Eng et al. (Eng).

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4. Regarding claims 7 and 11, Eng discloses, "a wireless data communication system apparatus, comprising: a plurality of routers (figure 22, element 27 as read in col. 8, lines 54-62 where an Access Processor is an Access Point as described in col. 1, lines 25-26); a plurality of network access points (figure 1, elements 11), each of said plurality of network access points being configured to: communicate with at least two of said plurality of routers (figure 1, element 10 where each AP can communicate with all other APs and thus other routers); and communicate with at least one remote user (figure 1, elements m, i.e. the mobile units are in clear communication with the APs); and a plurality of control points, each of said plurality of control points being co-located with one of said plurality of network access points (figure 22, element 25 as read in col. 3, lines 59-60 where each AP has the control modules 25); wherein each of the control points is configured to control communications between a remote user and at least two of said plurality of network access points (col. 7, lines 60-col. 8, lines 1-28, specifically

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lines 14-19)."

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5. Regarding claim 9, Eng discloses, "the wireless data communication system apparatus as claimed in claim 7, wherein each of said plurality of control points is configured to transfer control over said at least one of the plurality of network access points to a different control point (col. 8, lines 43-49 whereby switching the cell to the appropriate node, the control point has effectively switched control to another control point)."

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6. Regarding claim 22, Eng discloses, "the wireless data communication system apparatus as claimed in claim 7, wherein each of said plurality of network access points are configured to communicate with at least two of a plurality of routers (*figure 15*, "broadcasting" step allows the APs to communicate with all other APs and thus their routers)."

- 7. Regarding claim 23, Eng discloses, "the wireless data communication system apparatus as claimed in claim 22, further comprising: a plurality of home agents, each of said plurality of home agents being associated with one of said plurality of routers (col. 7, lines 19-26 whereby sending the "home update" message, the newly associated AP has effectively become the home agent of the mobile)."
- 8. Regarding claim 18, Eng discloses, "a method for data flow control in a distributed data communication system, comprising: receiving at a network access point data intended for a remote user (*figure 15*, "receipt of MAC frame"); and transmitting from the network access point the received data to the remote user under a control of a control point (*figure 15*, "invoke...transmit" step), the control point being co-located with a network access point different from said transmitting network access point (*figures 2* and 22 where each AP has a control point co-located with it)."

9. Regarding claim 20, Eng discloses, "the method as claimed in claim 18, further comprising transferring control from the control point to a second control point (col. 8,

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lines 43-49 whereby switching the cell to the appropriate node, the control point has effectively switched control to another control point)."

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10. Regarding claim 21, Eng discloses, "the method as claimed in claim 20, wherein 5 the second control point is co-located with said transmitting network access point (figure 2 where since each AP has a corresponding control point and it is completely possible for a roaming mobile to be under the control of the same AP has the transmitting AP, e.g. m_k and m_n are communicating where at least one is roaming, the second control point can be co-located with the transmitting AP)."

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- Claims 12 and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by 11. U.S. Patent 6,473,413 B1, Chiou et al. (Chiou).
- 12. It should be noted that although Chiou has a filling date after the earliest priority date of the instant application, the subject matter of claims 12, 13, and 10 (as seen below) cannot claim the benefit of this priority because the subject matter is not disclosed in either of the priority documents. Therefore, the subject matter of claims 12, 13, and 10 is restricted to the filling date of the instant application.
- 13. Regarding claim 12, Chiou discloses, "a method for data flow control in a distributed data communication system, comprising: receiving at a router data intended 20 for a remote user (col. 6, lines 66-col. 7, lines 1-3); and transmitting the received data to

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a foreign agent (col. 7, lines 3-4), the foreign agent being co-located with a network access point (figure 2, elements 15, 17, and 20)."

14. Regarding claim 13, Chiou discloses, "the method as claimed in claim 12,
5 wherein said transmitting the received data to a foreign agent, comprises: providing said received data intended for the remote user to a home agent, the home agent being associated with the router (*figure 3, element 305*)."

Claim Rejections - 35 USC § 103

- 15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
 - 16. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Eng et al. in view of Chiou et al.
- 20 17. Regarding claim 10, Eng discloses the apparatus of claim 7. However, Eng lacks what Chiou discloses, "a plurality of foreign agents, each of said plurality of foreign agents being co-located with one of said plurality of network access points (*figure 2*, elements 15 and 31)." It would have been obvious to one of ordinary skill in the art at the time of invention to include the foreign agents with the access points for the purpose of keeping a record of the mobile station's corresponding addresses (*Chiou, col. 4, lines 7-12*). The motivation for keeping a registration table is so that the mobile station can

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roam into different areas controlled by different access points and still communicate

(Chiou, figure 3).

18. Claims 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Eng et al.

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19. Regarding claim 14, Eng discloses, "a method for data flow control in a

distributed data communication system, comprising: receiving at [a] network access

points data intended for a remote user (figure 15, "receipt of MAC frame"); and

transmitting from the [a] network access points the received data to the remote user

under control of a control point (figure 15, "invoke...transmit" step), the control point

being co-located with a one of the network access points (figures 2 and 22 where each

AP has a control point co-located with it)."

20. However, Eng explicitly lacks "two or more" network access points receiving data

for a user and transmitting from the "two or more" access points to the user. Although

Eng does not explicitly disclose receiving data at two or more access points as well as

transmitting from these points, Eng does disclose the receiving and transmitting at an

access point as noted above. Eng further discloses the network contains more than one

remote user and more than one access point.

21. Therefore, it would have been obvious to one of ordinary skill in the art at the

time of invention to have two or more access points receiving data and two or more

access points transmitting data because it is strongly implied that what can happen to

one access point can happen at all access points. Further, there is no reason to believe

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from Eng that only one access point in the system can receive data from a user and transmit data to a user. The motivation for using two or more access points is so that if a mobile starts to roam into a different area controlled by a different access point, the mobile will be handed off to that access point and communication can continue (*Eng.*, col. 6, lines 22-33).

- 22. If applicant should disagree that claim 15 fails to further limit claim 14, the following rejection will be used.
- 23. Regarding claim 15, Eng further discloses, "wherein transmitting from the two or more network access points the received data to the remote user under a control of a control point comprises: transmitting from the two or more network access points the received data to the remote user under a control of the control point (figure 15, "invoke...transmit" step), the control point being co-located with one of the two or more network access points in communication with the remote user (figures 2 and 22 where each AP has a control point co-located with it)."
 - 24. Regarding claim 16, Eng further discloses, "transferring control from the control point to a second control point (col. 8, lines 43-49 whereby switching the cell to the appropriate node, the control point has effectively switched control to another control point)." It would have been obvious to one of ordinary skill in the art at the time of invention to include the second control point for the same reasons and motivation as in claim 14.

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25. Regarding claim 17, Eng further discloses, "wherein the second control point is co-located with said transmitting network access point (*figure 2 where since each AP has a corresponding control point and it is completely possible for a roaming mobile to be under the control of the same AP has the transmitting AP, e.g. m_k and m_n are communicating where at least one is roaming, the second control point can be co-located with the transmitting AP)." It would have been obvious to one of ordinary skill in the art at the time of invention to include the second control point co-located with the access point for the same reasons and motivation as in claim 16.*

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Response to Arguments

26. Applicant's arguments with respect to claims 7, 9-18, and 20-23 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

- 27. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 28. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

29. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Joshua Kading whose telephone number is (571) 272-

3070. The examiner can normally be reached on M-F: 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chau Nguyen can be reached on (571) 272-3126. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

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Joshua Kading

Examiner

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April 11, 2005

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Chow T. Mayor

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